

### Abstract of the Disclosure

An apparatus for the production of elongated carbonaceous article includes a chamber having at least one heating element, a catalyst and a device for generating a magnetic field in proximity to or around the catalyst. In operation, a carbon-containing precursor is introduced to the chamber to contact the catalyst with a sufficient amount of heat to cause the deposition of carbon on the catalyst. Continual deposition of carbon over time forms elongated carbon structures, such as carbon fibers and carbon nanotubes. By operating the device to magnetically confine the catalyst during the formation of the carbon structures, migration of catalyst is reduced or prevented thereby minimizing contaminants in the produced products and improving the useful life of the catalyst.

[illegible]